

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122821\  
 Data File : VN070328.D  
 Acq On : 28 Dec 2021 16:38  
 Operator : JC/MD  
 Sample : M5197-03 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 28 17:20:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 18:47:12 2021  
 Response via : Initial Calibration

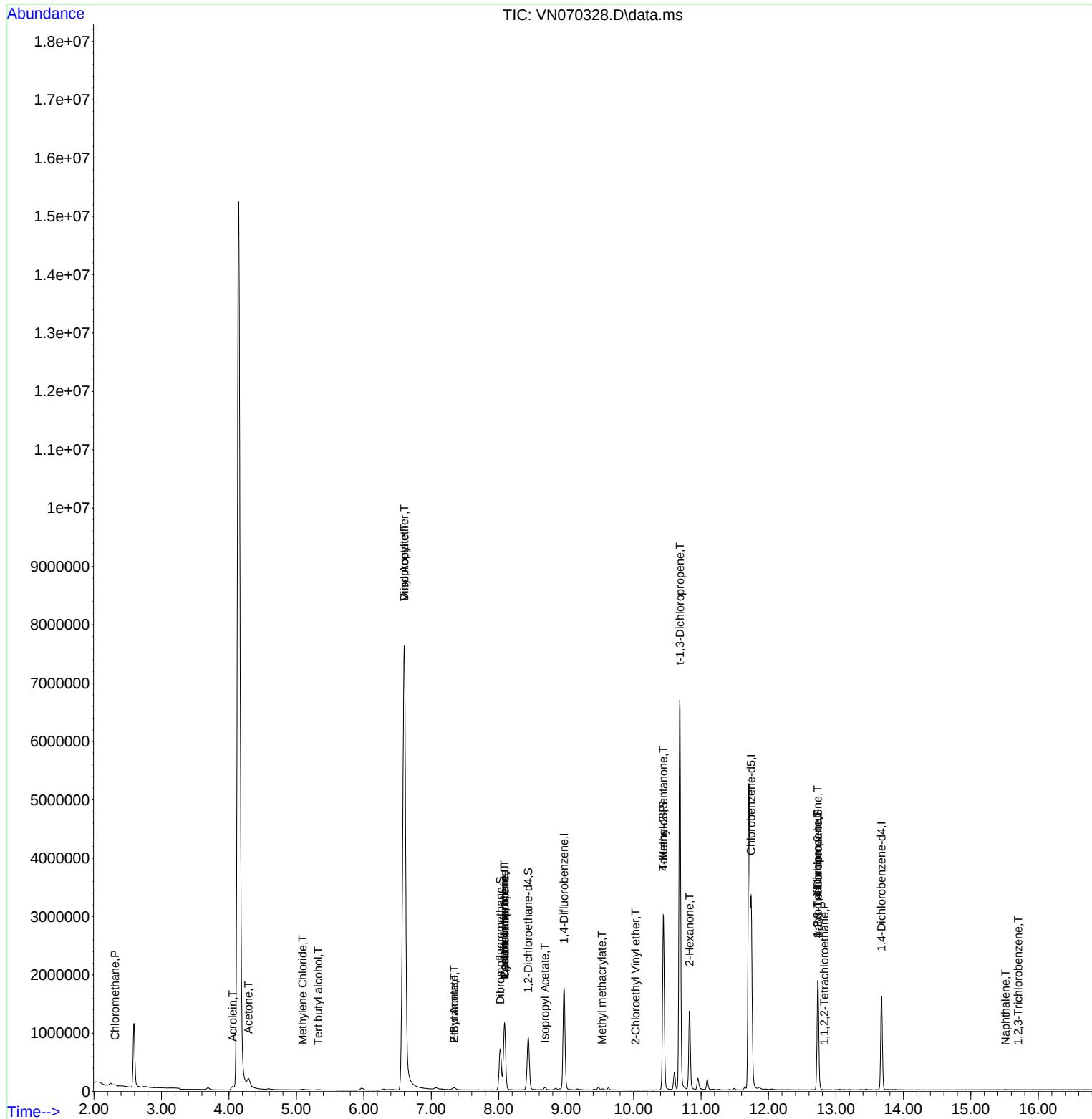
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 876568              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968          | 114  | 1506927             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.744         | 117  | 1396083             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675         | 152  | 441439              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437          | 65   | 741211              | 58.811 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 117.620% |        |        |          |
| 35) Dibromofluoromethane      | 8.021          | 113  | 520913              | 57.132 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 114.260% |        |        |          |
| 50) Toluene-d8                | 10.440         | 98   | 1991374             | 53.465 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 106.920% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.731         | 95   | 687497              | 51.105 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 102.200% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 3) Chloromethane              | 2.309          | 50   | 3027                | 0.224  | ug/l   | 93       |
| 11) Tert butyl alcohol        | 5.320          | 59   | 6768                | 3.225  | ug/l # | 77       |
| 13) Acrolein                  | 4.055          | 56   | 84997               | 49.918 | ug/l   | 96       |
| 16) Acetone                   | 4.291          | 43   | 223866              | 27.362 | ug/l # | 18       |
| 20) Methylene Chloride        | 5.093          | 84   | 2970                | 0.262  | ug/l # | 84       |
| 22) Diisopropyl ether         | 6.600          | 45   | 670921              | 17.018 | ug/l # | 1        |
| 23) Vinyl Acetate             | 6.600          | 43   | 1595150             | 52.150 | ug/l # | 72       |
| 25) 2-Butanone                | 7.340          | 43   | 40559               | 3.937  | ug/l   | 95       |
| 31) Cyclohexane               | 8.086          | 56   | 20561               | 1.034  | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 8.086          | 75   | 72225               | 4.788  | ug/l # | 42       |
| 37) Ethyl Acetate             | 7.340          | 43   | 40559               | 2.075  | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 87313               | 6.062  | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.686          | 43   | 13816               | 0.448  | ug/l # | 55       |
| 48) Methyl methacrylate       | 9.531          | 41   | 3436                | 0.234  | ug/l # | 46       |
| 51) 4-Methyl-2-Pentanone      | 10.440         | 43   | 10813               | 0.558  | ug/l # | 1        |
| 53) t-1,3-Dichloropropene     | 10.687         | 75   | 11952               | 0.718  | ug/l # | 52       |
| 58) 2-Chloroethyl Vinyl ether | 10.030         | 63   | 50                  | 18.523 | ug/l # | 45       |
| 59) 2-Hexanone                | 10.829         | 43   | 120742              | 8.548  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827         | 83   | 28                  | 0.449  | ug/l # | 25       |
| 76) 1,2,3-Trichloropropane    | 12.731         | 75   | 361054              | 28.851 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731         | 75   | 361054              | 99.929 | ug/l # | 5        |
| 95) Naphthalene               | 15.515         | 128  | 5371                | 2.054  | ug/l # | 91       |
| 96) 1,2,3-Trichlorobenzene    | 15.702         | 180  | 469                 | 0.892  | ug/l # | 67       |
| -----                         |                |      |                     |        |        |          |

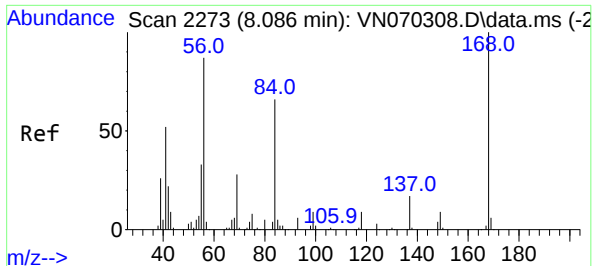
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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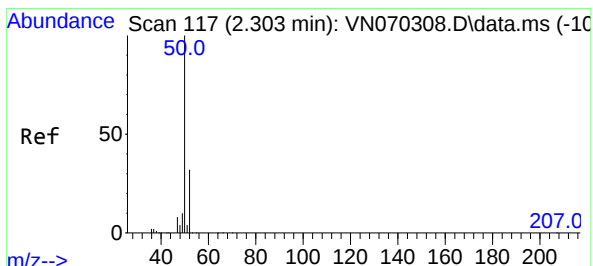
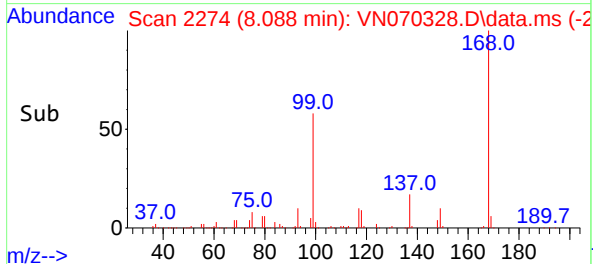
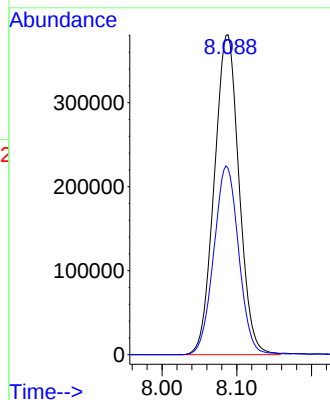
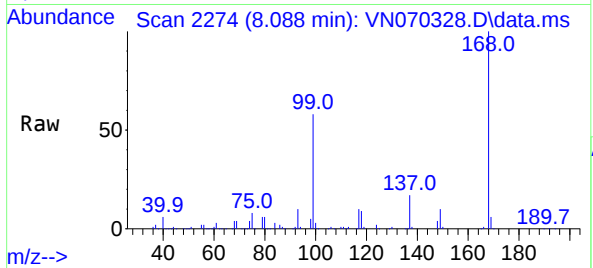




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

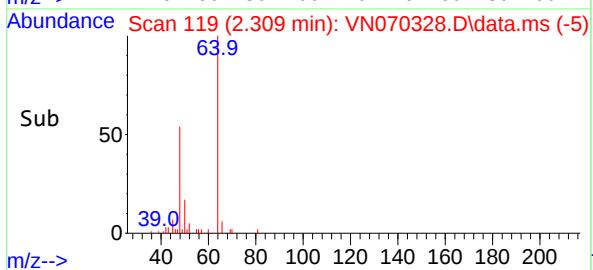
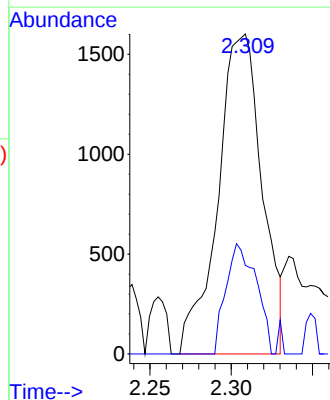
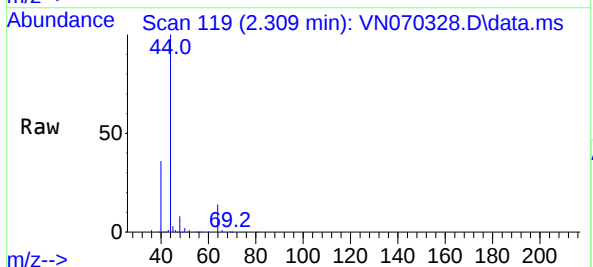
Instrument :  
MSVOA\_N  
ClientSampleId :

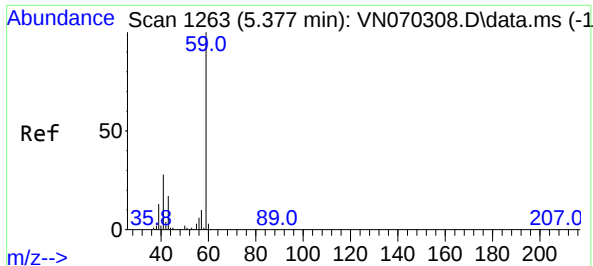
Tgt Ion:168 Resp: 876568  
Ion Ratio Lower Upper  
168 100  
99 58.2 41.3 61.9



#3  
Chloromethane  
Concen: 0.224 ug/l  
RT: 2.309 min Scan# 119  
Delta R.T. 0.006 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion: 50 Resp: 3027  
Ion Ratio Lower Upper  
50 100  
52 27.7 25.4 38.0





#11

Tert butyl alcohol

Concen: 3.225 ug/l

RT: 5.320 min Scan# 11

Delta R.T. -0.057 min

Lab File: VN070328.D

Acq: 28 Dec 2021 16:38

Instrument :

MSVOA\_N

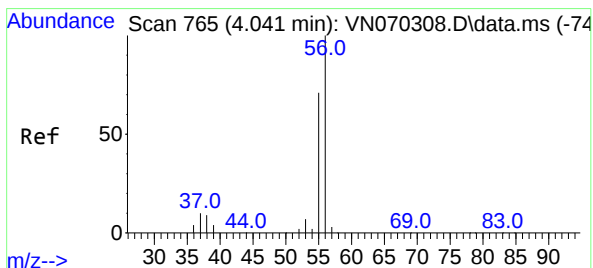
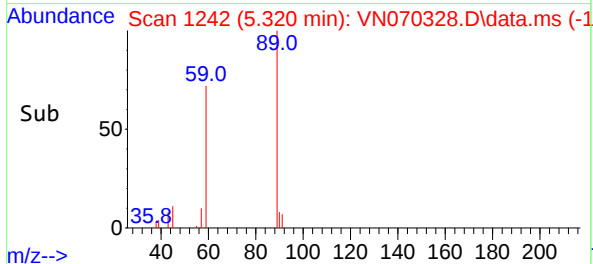
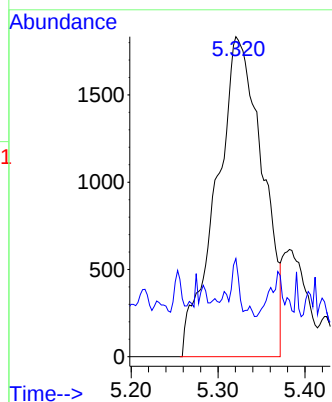
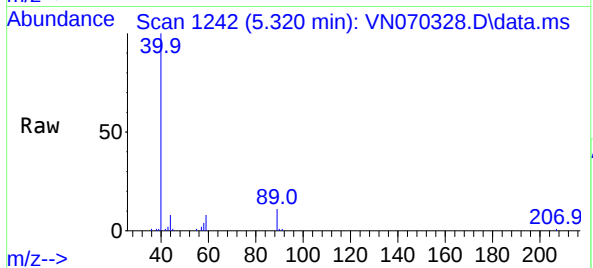
ClientSampleId :

Tgt Ion: 59 Resp: 6768

Ion Ratio Lower Upper

59 100

57 2.2 8.7 13.1#



#13

Acrolein

Concen: 49.918 ug/l

RT: 4.055 min Scan# 770

Delta R.T. 0.014 min

Lab File: VN070328.D

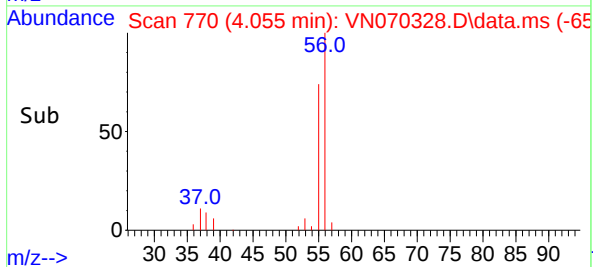
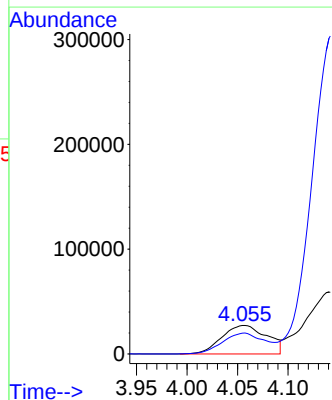
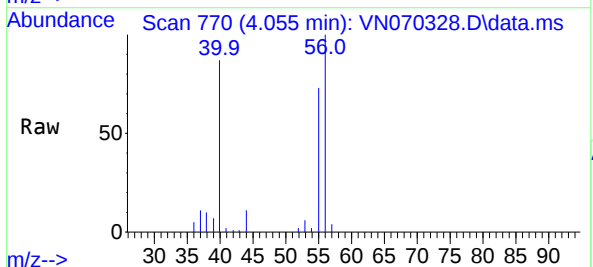
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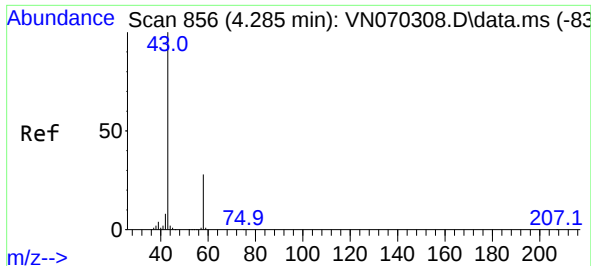
Tgt Ion: 56 Resp: 84997

Ion Ratio Lower Upper

56 100

55 67.8 56.6 85.0

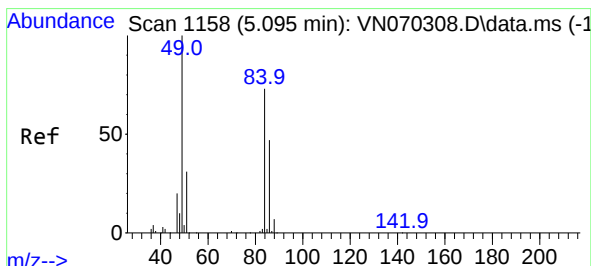
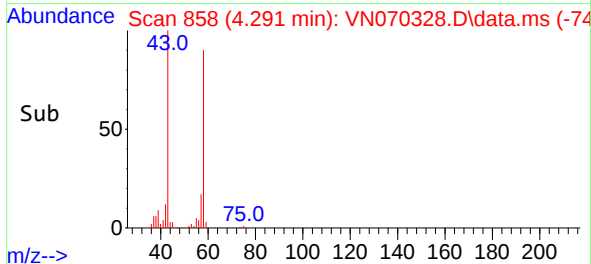
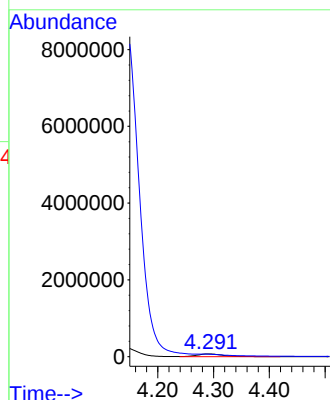
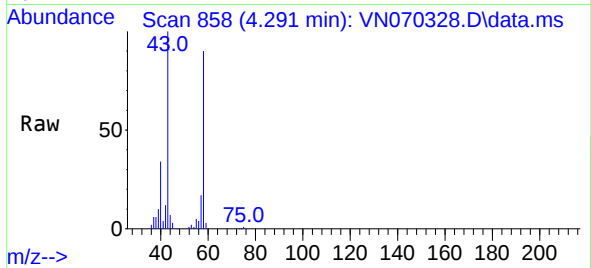




#16  
Acetone  
Concen: 27.362 ug/l  
RT: 4.291 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

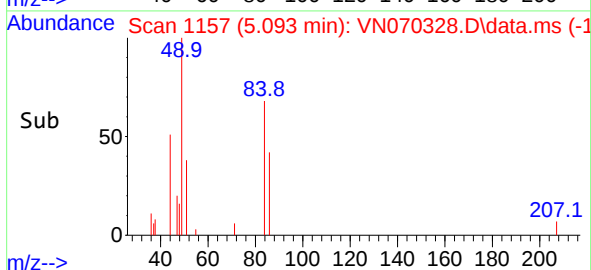
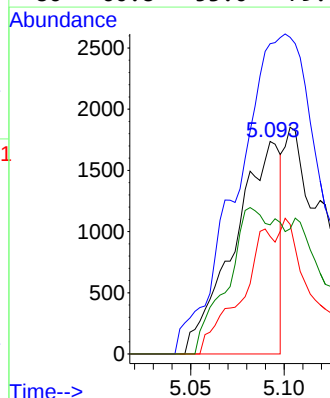
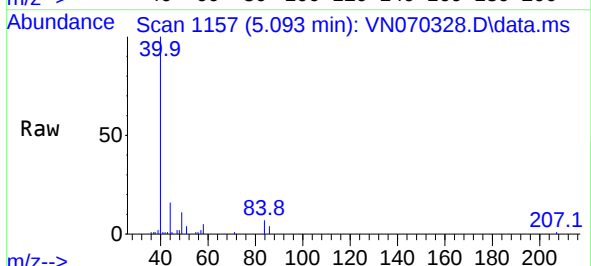
Instrument :  
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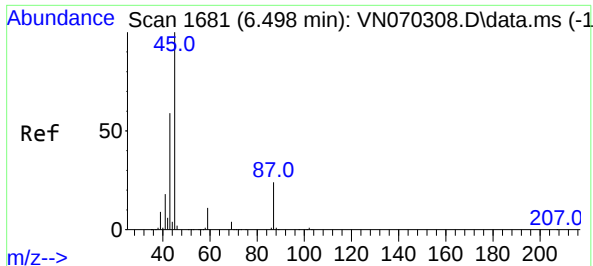
Tgt Ion: 43 Resp: 223866  
Ion Ratio Lower Upper  
43 100  
58 72.7 23.1 34.7#



#20  
Methylene Chloride  
Concen: 0.262 ug/l  
RT: 5.093 min Scan# 1157  
Delta R.T. -0.002 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

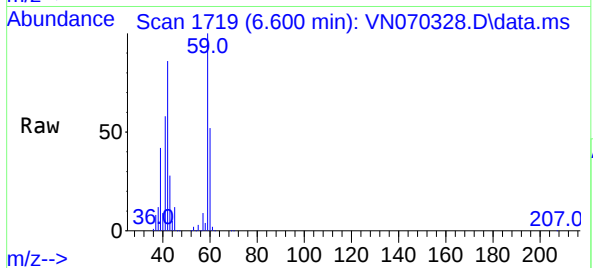
Tgt Ion: 84 Resp: 2970  
Ion Ratio Lower Upper  
84 100  
49 134.2 93.5 140.3  
51 55.4 29.4 44.2#  
86 60.8 53.0 79.4



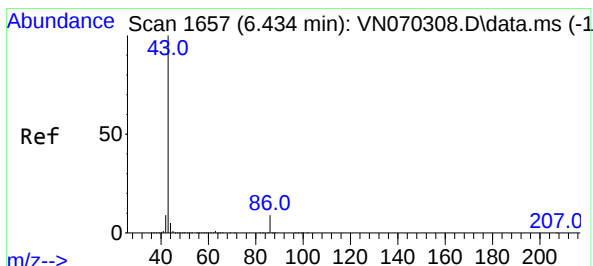
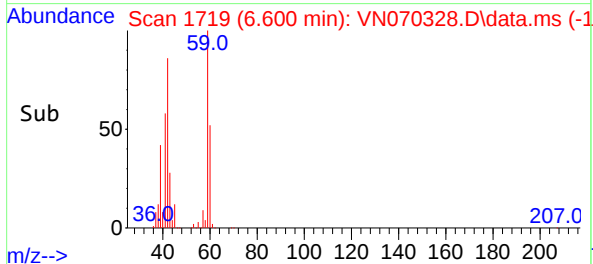
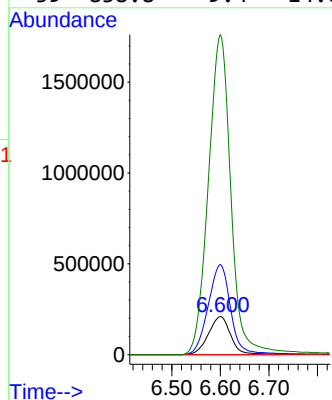


#22  
Diisopropyl ether  
Concen: 17.018 ug/l  
RT: 6.600 min Scan# 1719  
Delta R.T. 0.102 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

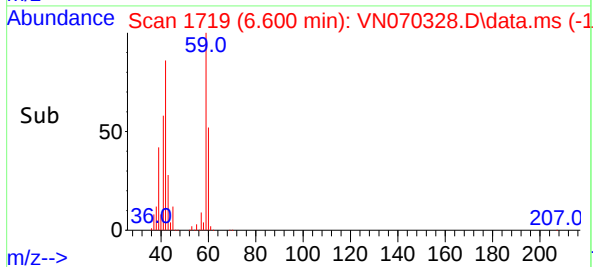
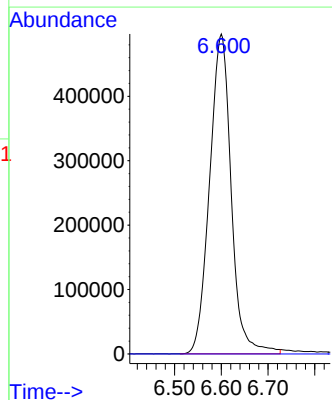
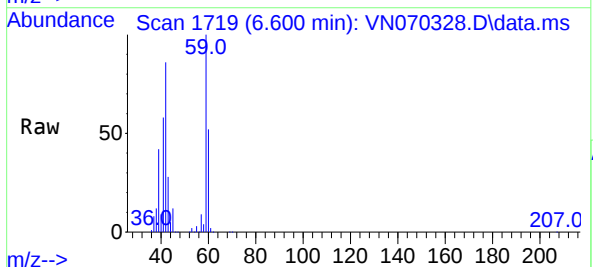


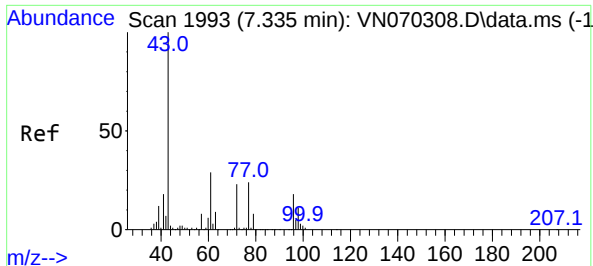
Tgt Ion: 45 Resp: 670921  
Ion Ratio Lower Upper  
45 100  
43 236.5 51.7 77.5#  
87 0.0 23.2 34.8#  
59 838.8 9.4 14.0#



#23  
Vinyl Acetate  
Concen: 52.150 ug/l  
RT: 6.600 min Scan# 1719  
Delta R.T. 0.166 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion: 43 Resp: 1595150  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.5 12.7#

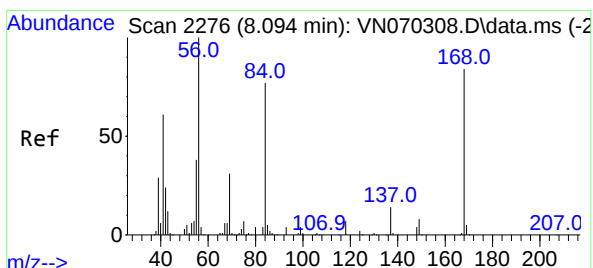
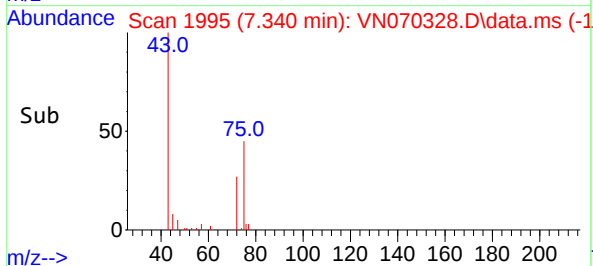
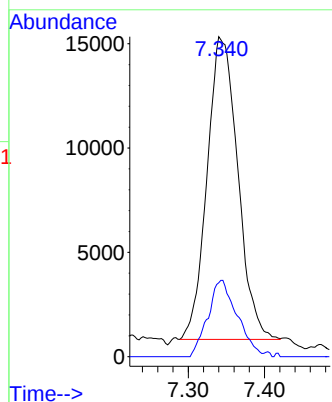
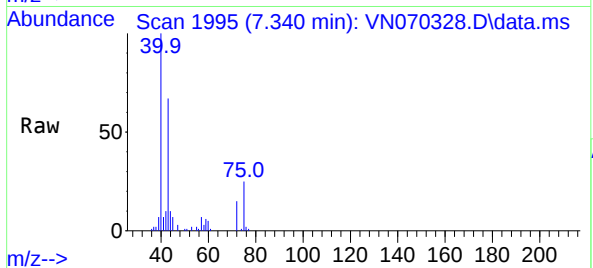




#25  
2-Butanone  
Concen: 3.937 ug/l  
RT: 7.340 min Scan# 1993  
Delta R.T. 0.005 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

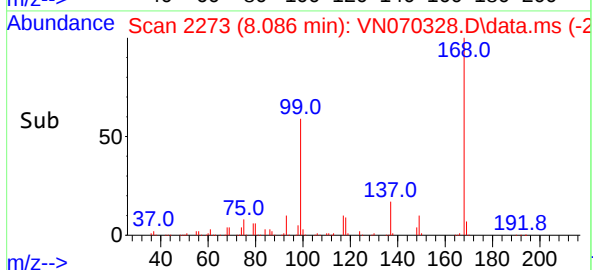
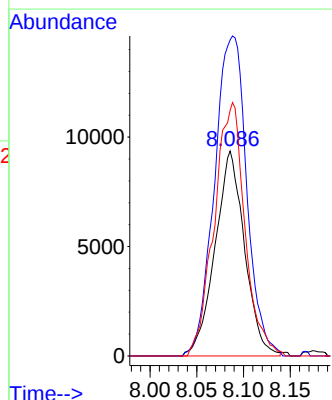
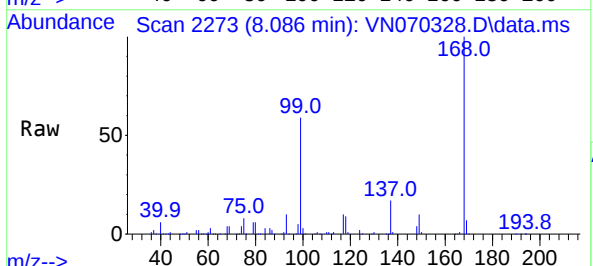
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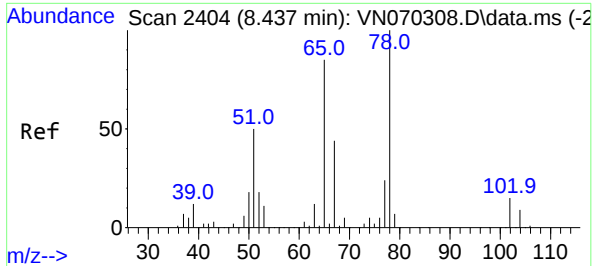
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Ion Ratio Lower Upper  
43 100  
72 24.4 21.7 32.5



#31  
Cyclohexane  
Concen: 1.034 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.008 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion: 56 Resp: 20561  
Ion Ratio Lower Upper  
56 100  
69 154.2 27.1 40.7#  
84 119.8 73.4 110.0#

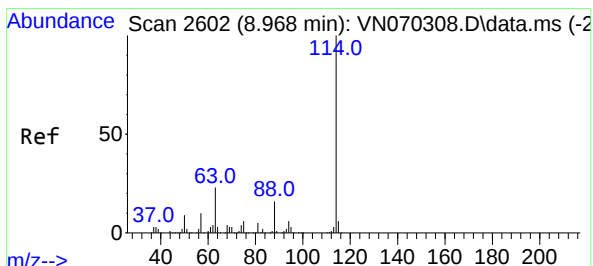
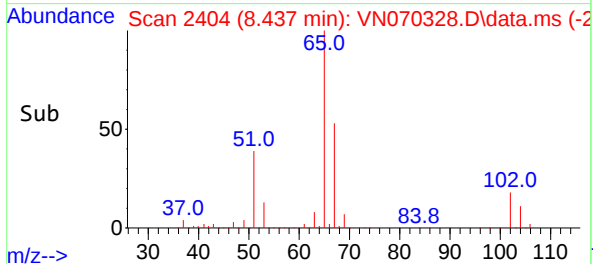
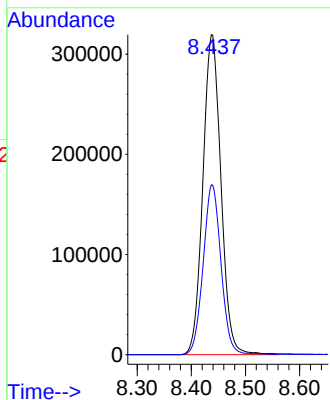
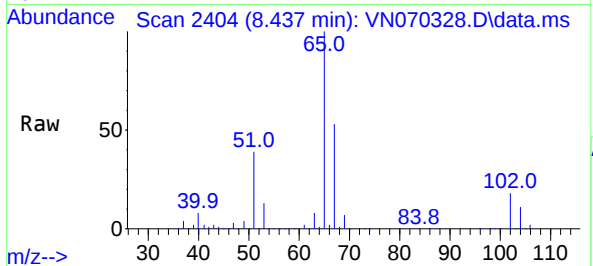




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.811 ug/l  
 RT: 8.437 min Scan# 2404  
 Delta R.T. -0.000 min  
 Lab File: VN070328.D  
 Acq: 28 Dec 2021 16:38

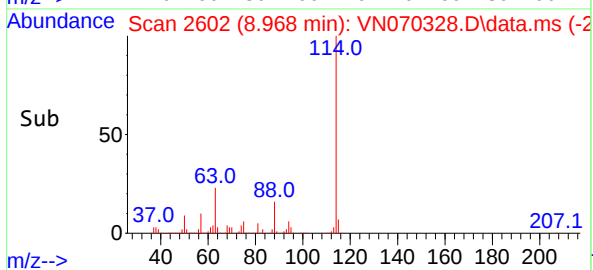
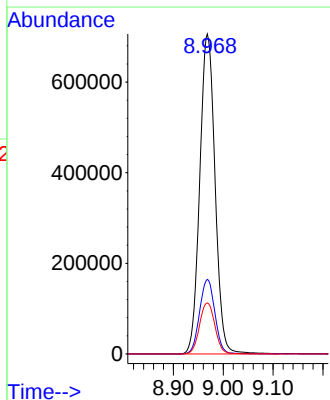
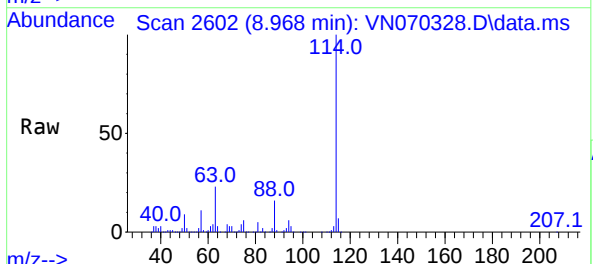
Instrument :  
 MSVOA\_N  
 ClientSampleId :

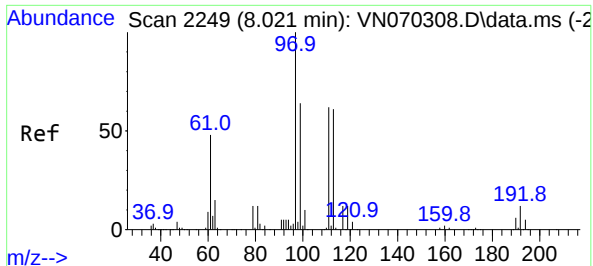
Tgt Ion: 65 Resp: 741211  
 Ion Ratio Lower Upper  
 65 100  
 67 52.2 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.968 min Scan# 2602  
 Delta R.T. -0.000 min  
 Lab File: VN070328.D  
 Acq: 28 Dec 2021 16:38

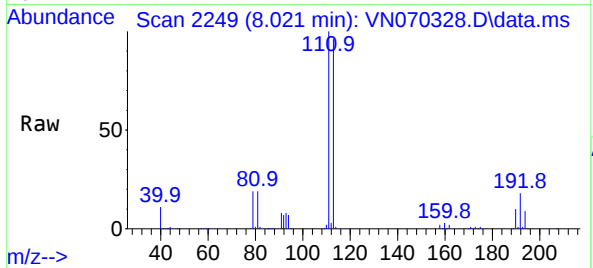
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 Ion Ratio Lower Upper  
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 63 23.3 0.0 37.8  
 88 15.9 0.0 27.4



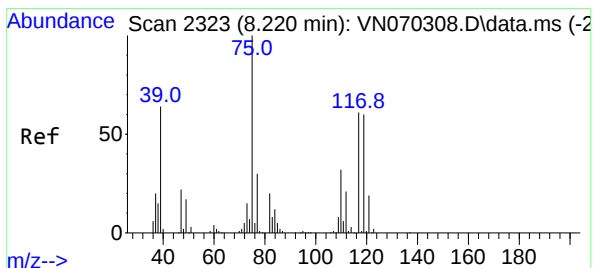
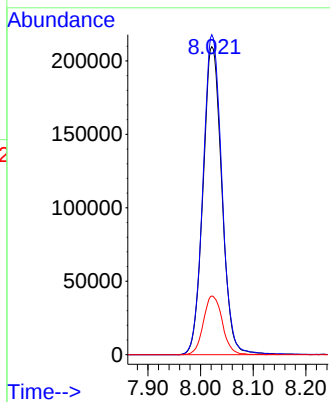
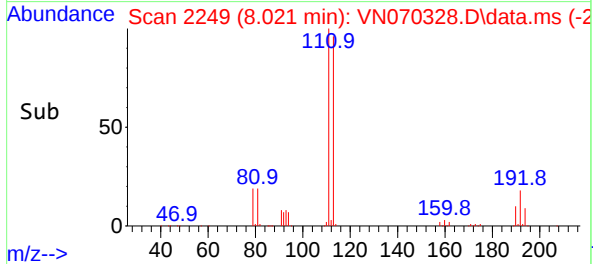


#35  
Dibromofluoromethane  
Concen: 57.132 ug/l  
RT: 8.021 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

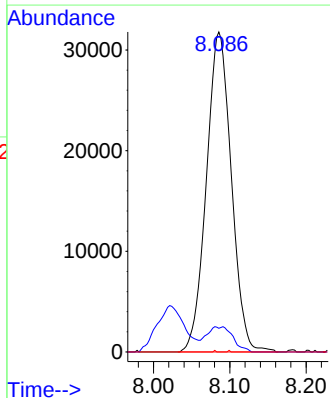
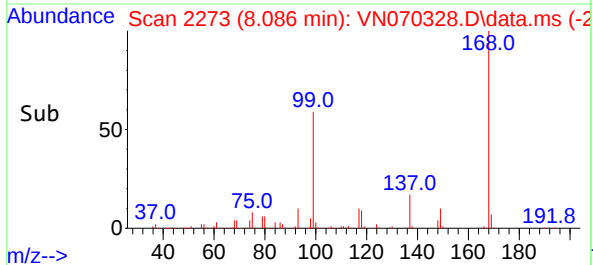
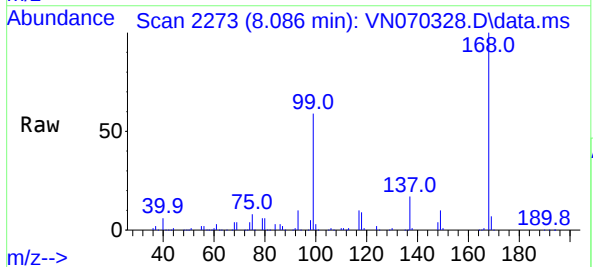


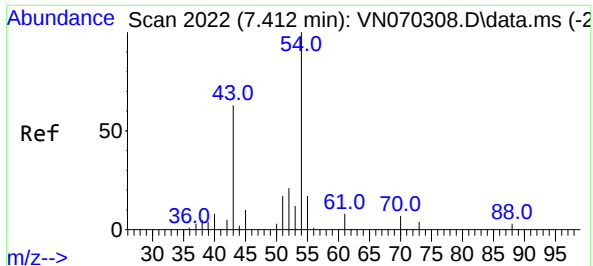
Tgt Ion:113 Resp: 520913  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.2 123.2  
192 19.2 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.788 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.134 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion: 75 Resp: 72225  
Ion Ratio Lower Upper  
75 100  
110 1.7 18.4 55.2#  
77 0.0 24.4 36.6#

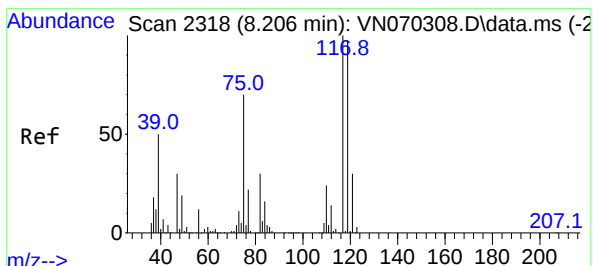
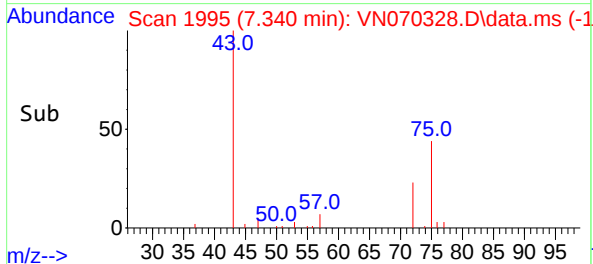
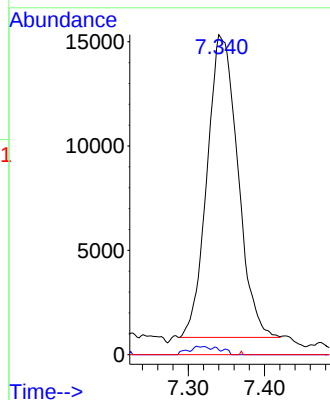
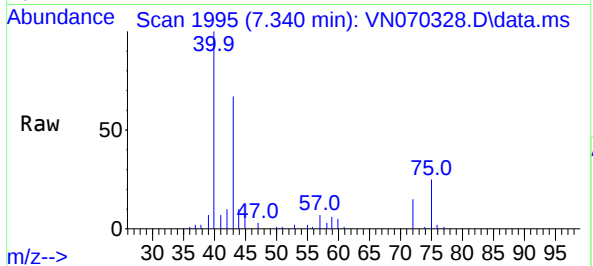




#37  
Ethyl Acetate  
Concen: 2.075 ug/l  
RT: 7.340 min Scan# 11  
Delta R.T. -0.072 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

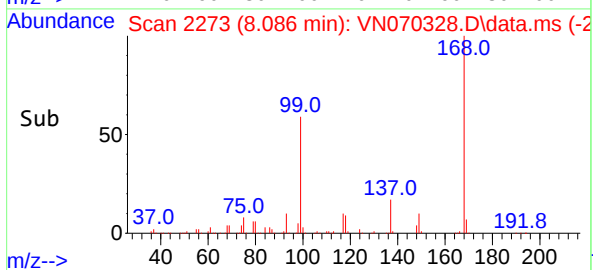
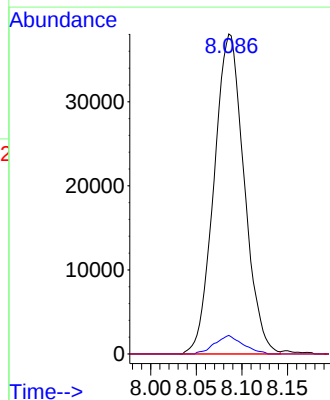
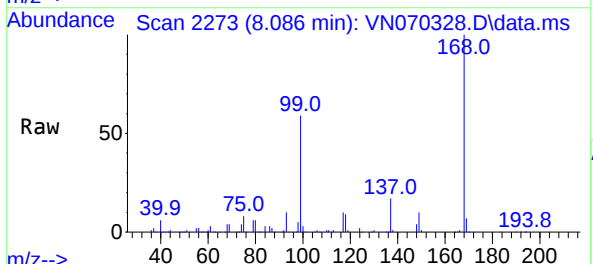
Instrument :  
MSVOA\_N  
ClientSampleId :

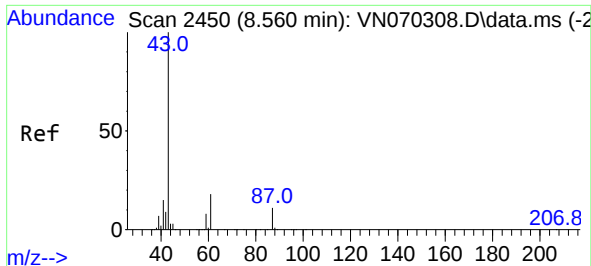
Tgt Ion: 43 Resp: 40559  
Ion Ratio Lower Upper  
43 100  
61 0.4 11.5 17.3#  
70 0.0 7.9 11.9#



#38  
Carbon Tetrachloride  
Concen: 6.062 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.120 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

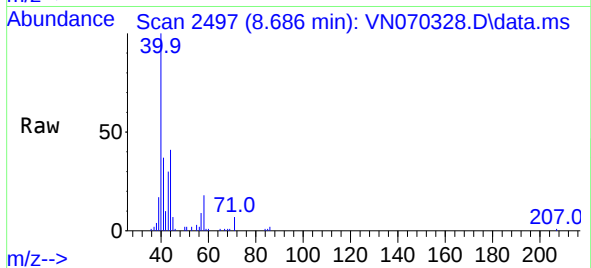
Tgt Ion: 117 Resp: 87313  
Ion Ratio Lower Upper  
117 100  
119 5.8 76.1 114.1#  
121 0.0 24.2 36.2#



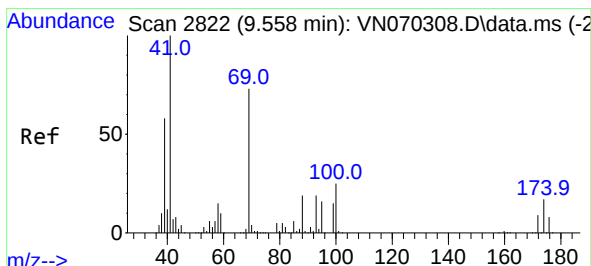
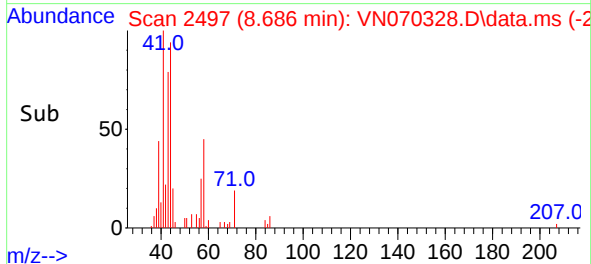
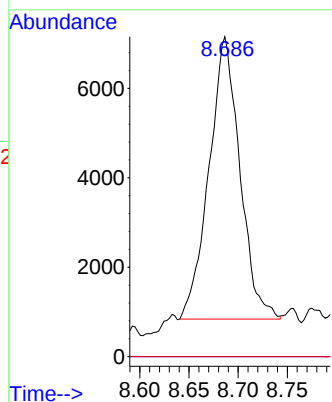


#43  
Isopropyl Acetate  
Concen: 0.448 ug/l  
RT: 8.686 min Scan# 2450  
Delta R.T. 0.126 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :

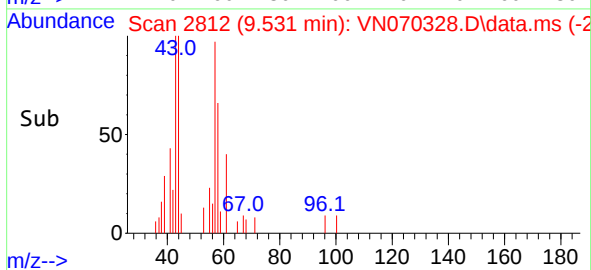
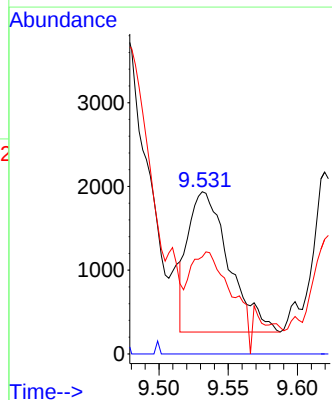
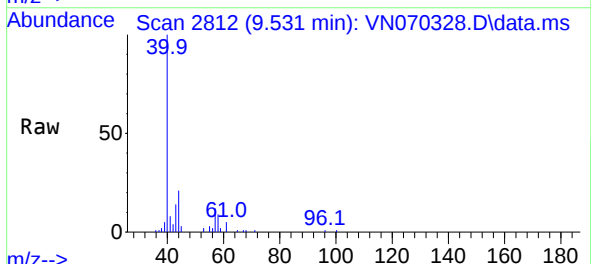


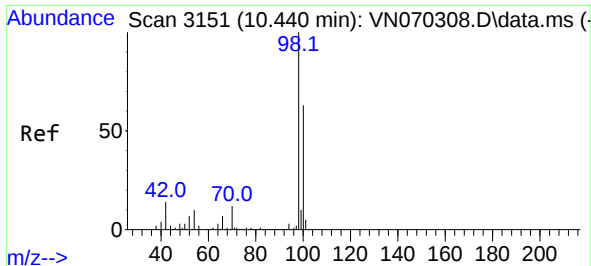
Tgt Ion: 43 Resp: 13816  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 11.2 16.8#



#48  
Methyl methacrylate  
Concen: 0.234 ug/l  
RT: 9.531 min Scan# 2812  
Delta R.T. -0.027 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion: 41 Resp: 3436  
Ion Ratio Lower Upper  
41 100  
69 0.0 72.4 108.6#  
39 74.1 58.4 87.6

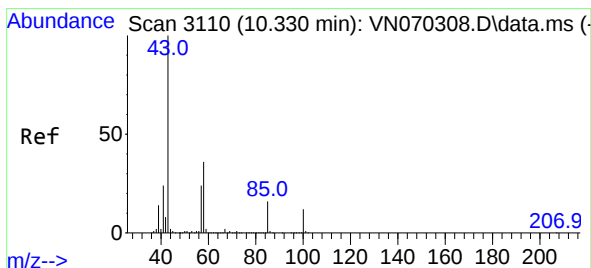
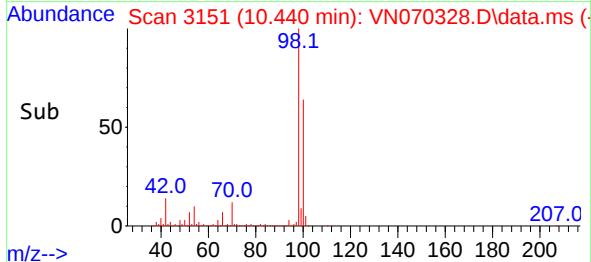
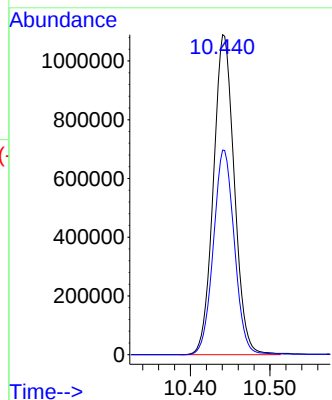
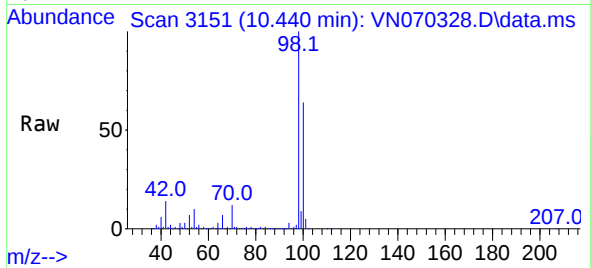




#50  
Toluene-d8  
Concen: 53.465 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. 0.000 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

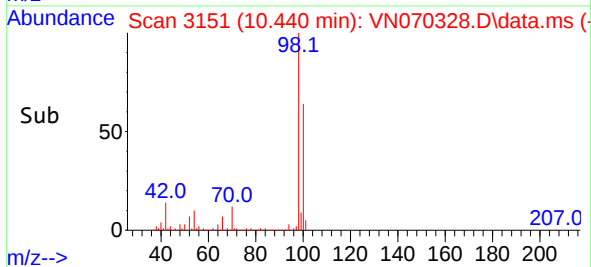
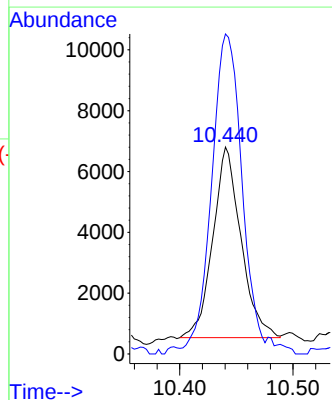
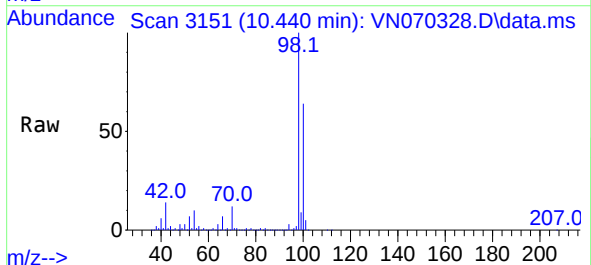
Instrument :  
MSVOA\_N  
ClientSampleId :

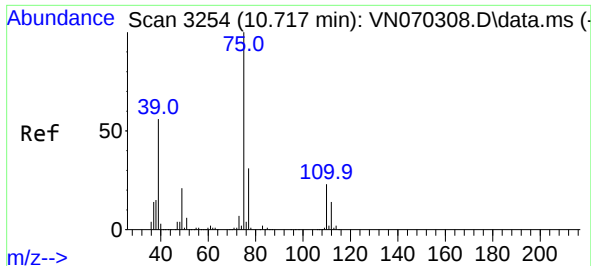
Tgt Ion: 98 Resp: 1991374  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.4 75.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.558 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. 0.110 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion: 43 Resp: 10813  
Ion Ratio Lower Upper  
43 100  
58 172.5 30.4 45.6#

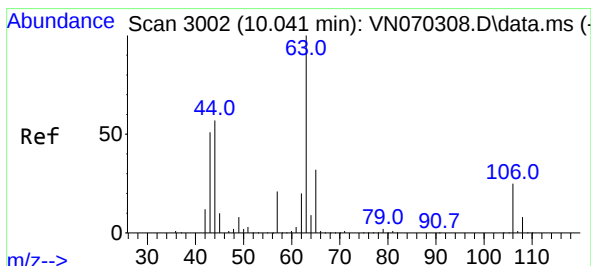
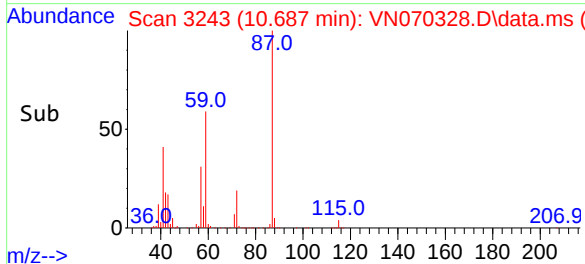
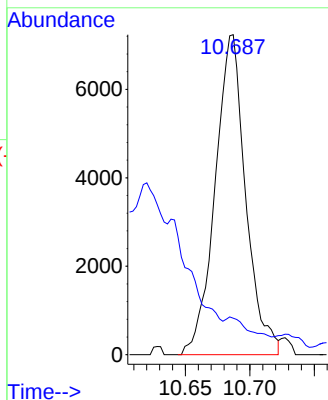
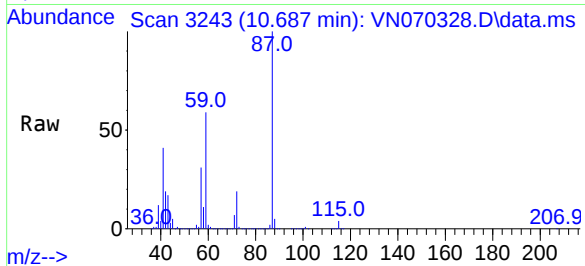




#53  
t-1,3-Dichloropropene  
Concen: 0.718 ug/l  
RT: 10.687 min Scan# 31  
Delta R.T. -0.030 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

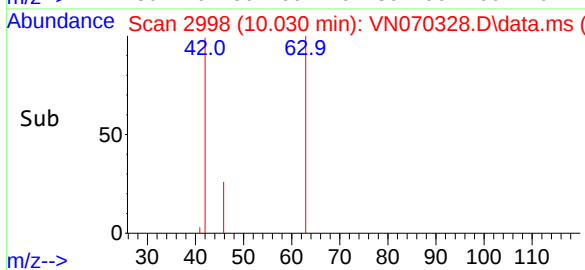
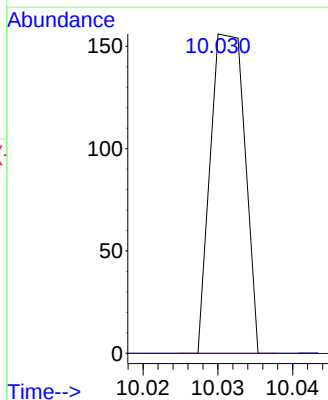
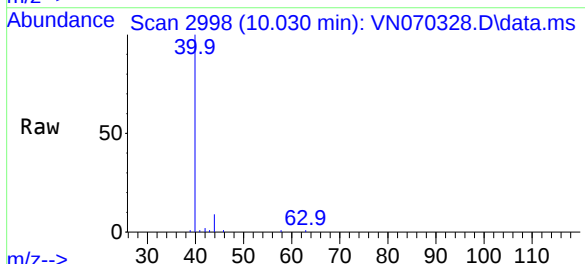
Instrument :  
MSVOA\_N  
ClientSampleId :

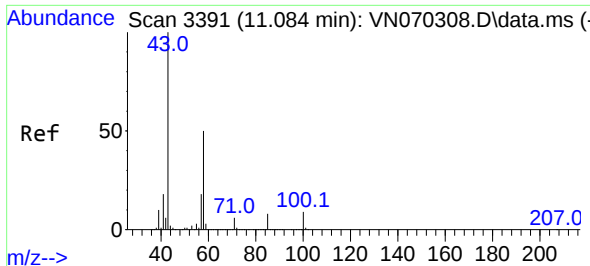
Tgt Ion: 75 Resp: 11952  
Ion Ratio Lower Upper  
75 100  
77 5.5 25.6 38.4#



#58  
2-Chloroethyl Vinyl ether  
Concen: 18.523 ug/l  
RT: 10.030 min Scan# 2998  
Delta R.T. -0.011 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion: 63 Resp: 50  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#

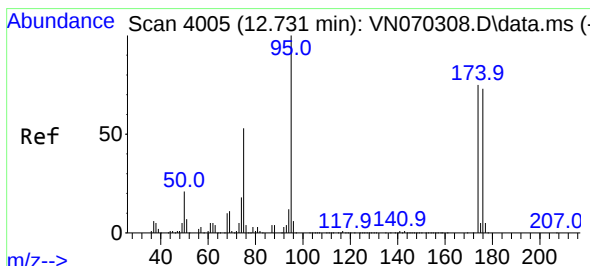
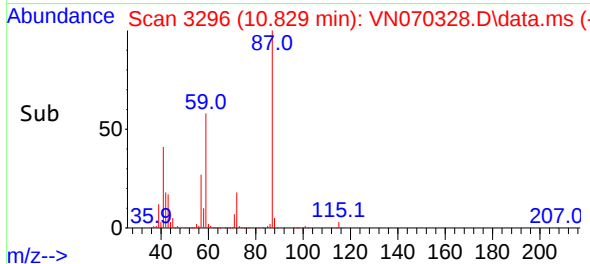
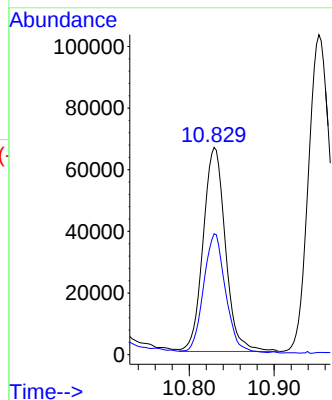
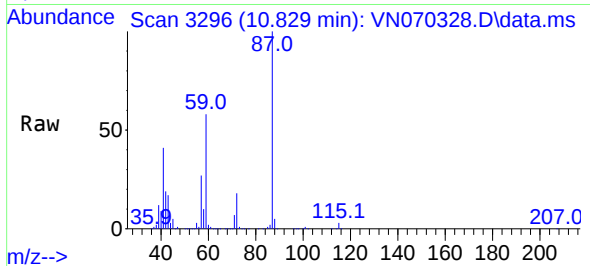




#59  
2-Hexanone  
Concen: 8.548 ug/l  
RT: 10.829 min Scan# 31  
Delta R.T. -0.255 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

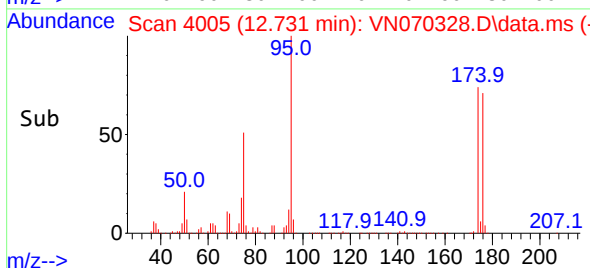
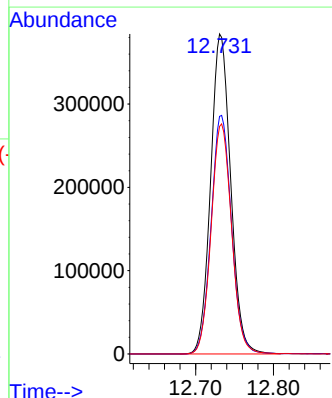
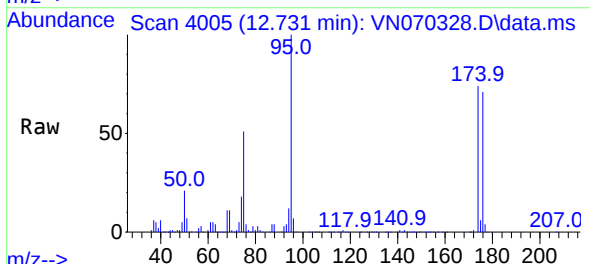
Instrument :  
MSVOA\_N  
ClientSampleId :

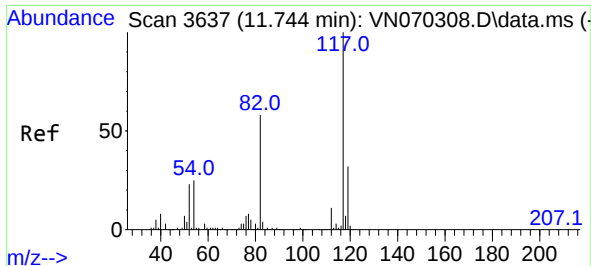
Tgt Ion: 43 Resp: 120742  
Ion Ratio Lower Upper  
43 100  
58 57.1 26.9 80.7



#62  
4-Bromofluorobenzene  
Concen: 51.105 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

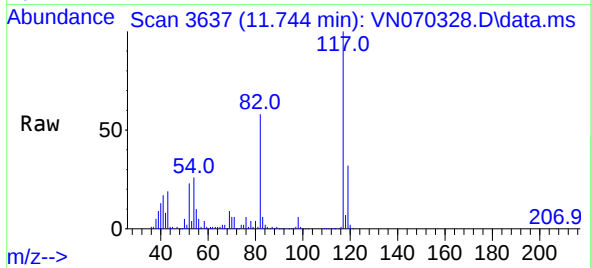
Tgt Ion: 95 Resp: 687497  
Ion Ratio Lower Upper  
95 100  
174 75.8 0.0 187.2  
176 73.1 0.0 181.4





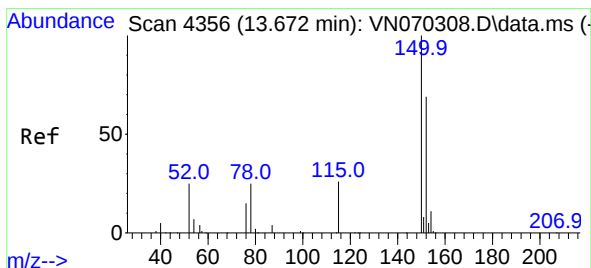
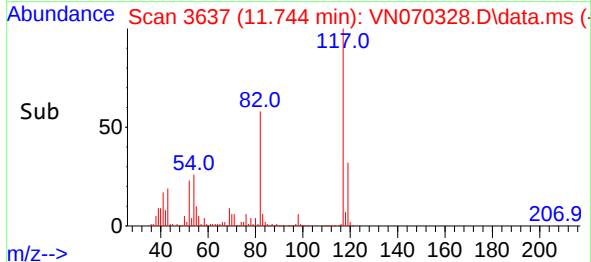
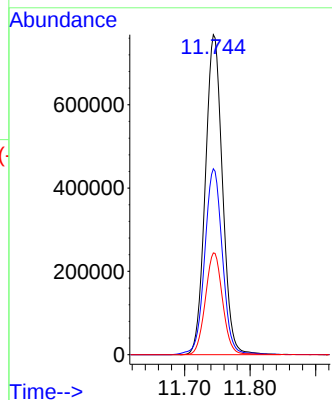
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.000 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:117 Resp: 1396083

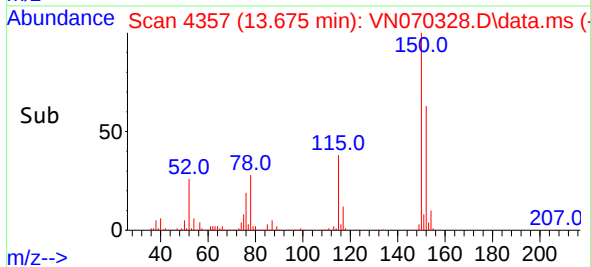
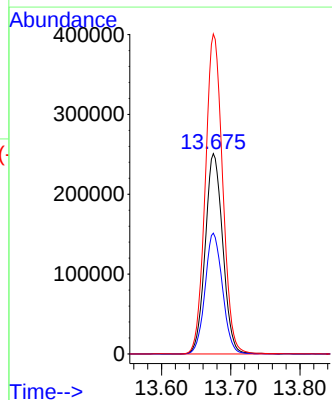
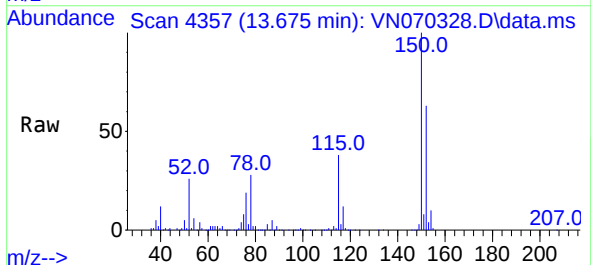
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 58.0  | 42.4  | 63.6  |
| 119 | 31.8  | 25.4  | 38.2  |

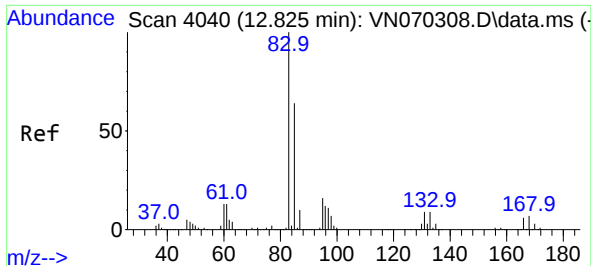


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. 0.003 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

Tgt Ion:152 Resp: 441439

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 59.9  | 27.5  | 82.5  |
| 150 | 158.0 | 0.0   | 344.4 |

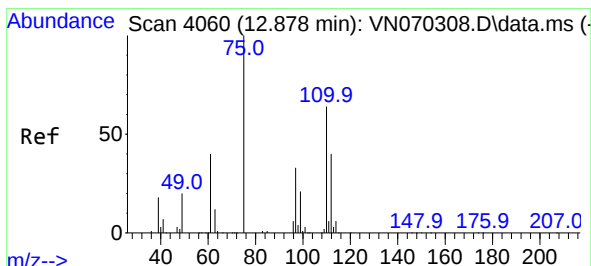
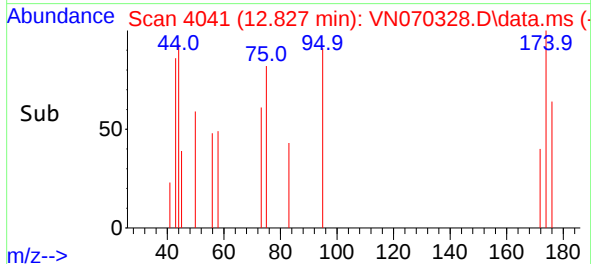
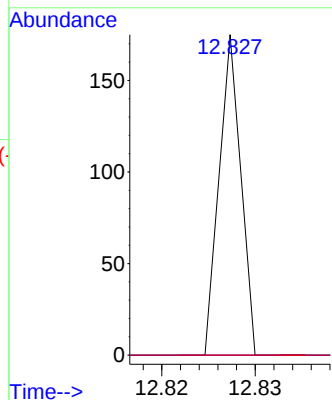
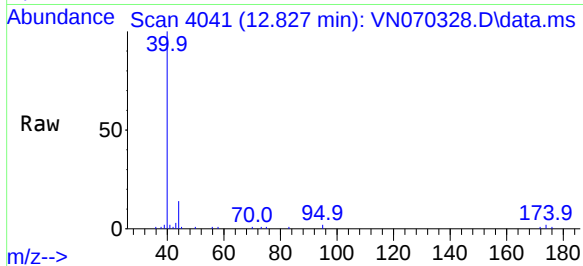




#75  
1,1,2,2-Tetrachloroethane  
Concen: 0.449 ug/l  
RT: 12.827 min Scan# 4040  
Delta R.T. 0.002 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

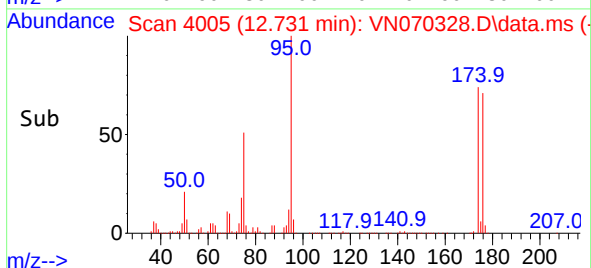
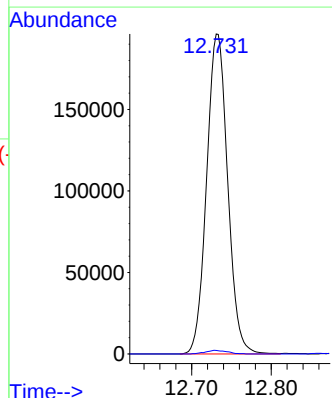
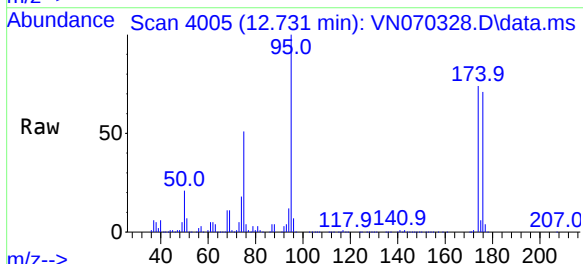
Instrument :  
MSVOA\_N  
ClientSampleId :

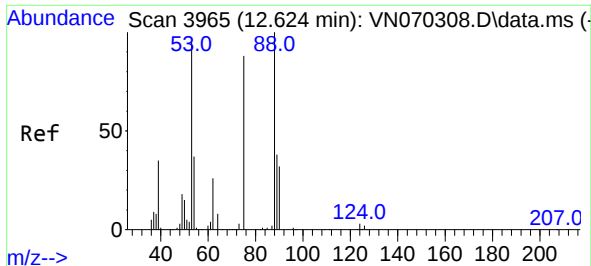
Tgt Ion: 83 Resp: 28  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.5 16.5#  
85 0.0 32.4 97.2#



#76  
1,2,3-Trichloropropane  
Concen: 28.851 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.147 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

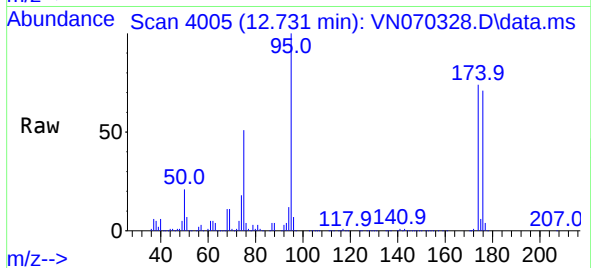
Tgt Ion: 75 Resp: 361054  
Ion Ratio Lower Upper  
75 100  
77 1.2 82.6 247.8#



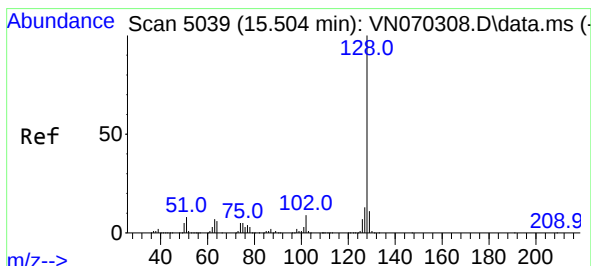
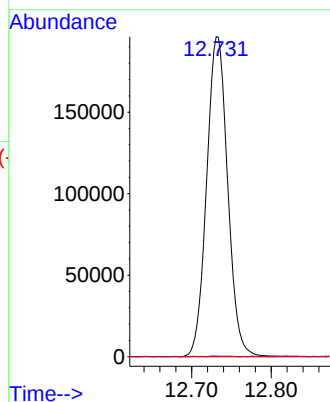
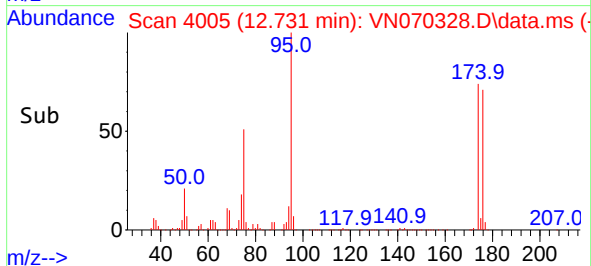


#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.929 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.107 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38

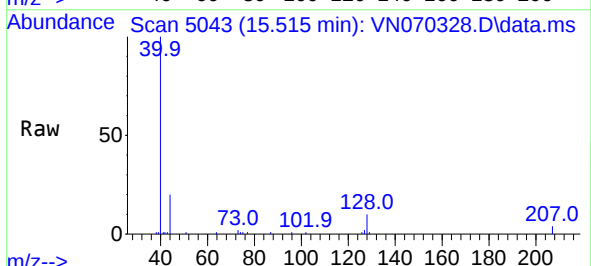
Instrument :  
MSVOA\_N  
ClientSampleId :



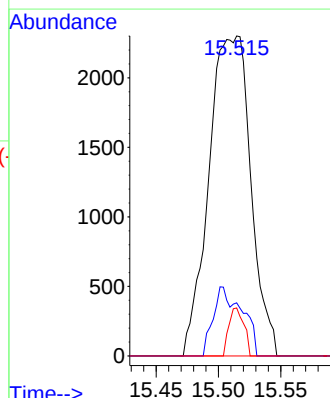
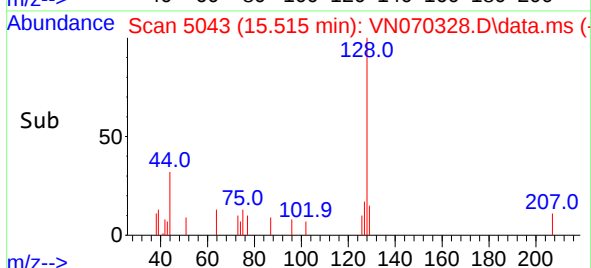
Tgt Ion: 75 Resp: 361054  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#

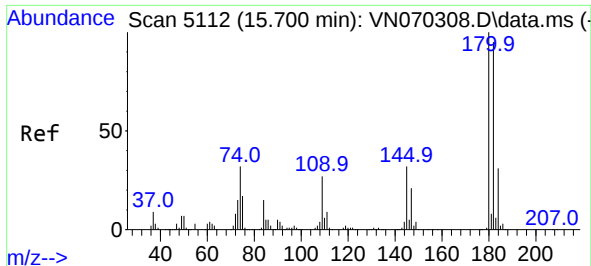


#95  
Naphthalene  
Concen: 2.054 ug/l  
RT: 15.515 min Scan# 5043  
Delta R.T. 0.011 min  
Lab File: VN070328.D  
Acq: 28 Dec 2021 16:38



Tgt Ion: 128 Resp: 5371  
Ion Ratio Lower Upper  
128 100  
127 14.8 10.5 15.7  
129 5.4 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 0.892 ug/l

RT: 15.702 min Scan# 51

Delta R.T. 0.002 min

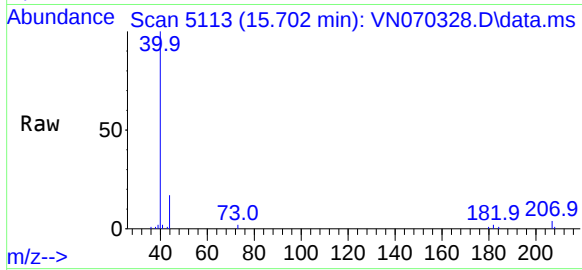
Lab File: VN070328.D

Acq: 28 Dec 2021 16:38

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion:180 Resp: 469

Ion Ratio Lower Upper

180 100

182 125.6 47.4 142.2

145 11.1 15.0 45.1#

